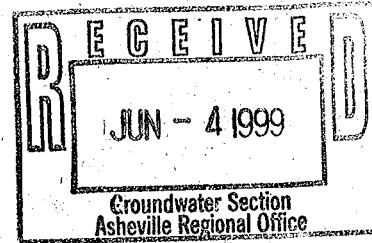


PARKWAY CHEVROLET #3
PARKWAY CHEVROLET #3
PREScott ENVIRONMENTAL ASSOCIATES, INC. QQ



June 1, 1999

Ms. Julie Berrey
DWQ/Groundwater Section
NC DENR Asheville Regional Office
59 Woodfin Place
Asheville, North Carolina 28801

RE: Former Parkway Chevrolet Facility, 205 Smoky Park Highway
NC DENR Facility ID #0-029190, Incident ID #18332

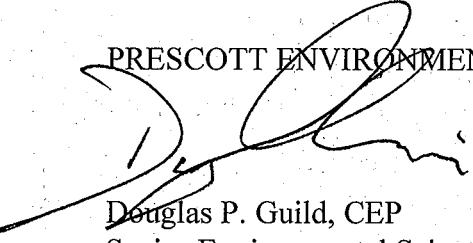
Dear Ms. Berrey:

Enclosed please find our semi-annual groundwater monitoring report for the referenced facility. There was no contamination reported in any of the analyses completed for groundwater samples from the three on-site wells.

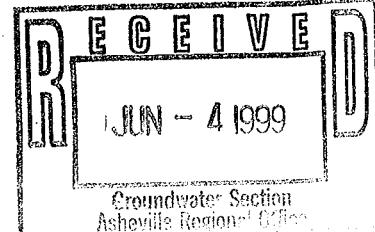
Please let me know if you have any questions on this information. Thank you.

Sincerely,

PREScott ENVIRONMENTAL ASSOCIATES, INC.


Douglas P. Guild, CEP
Senior Environmental Scientist

Enclosure



QUARTERLY
GROUNDWATER
MONITORING

Former Parkway Chevrolet Facility
205 Smoky Park Highway
Asheville, Buncombe County, North Carolina

NC DENR Facility I.D. #0-029190
NC DENR Incident I.D. #18332

Prepared For:

Mr. Dan McInerny
Bose, McKinney & Evans
Indianapolis, Indiana

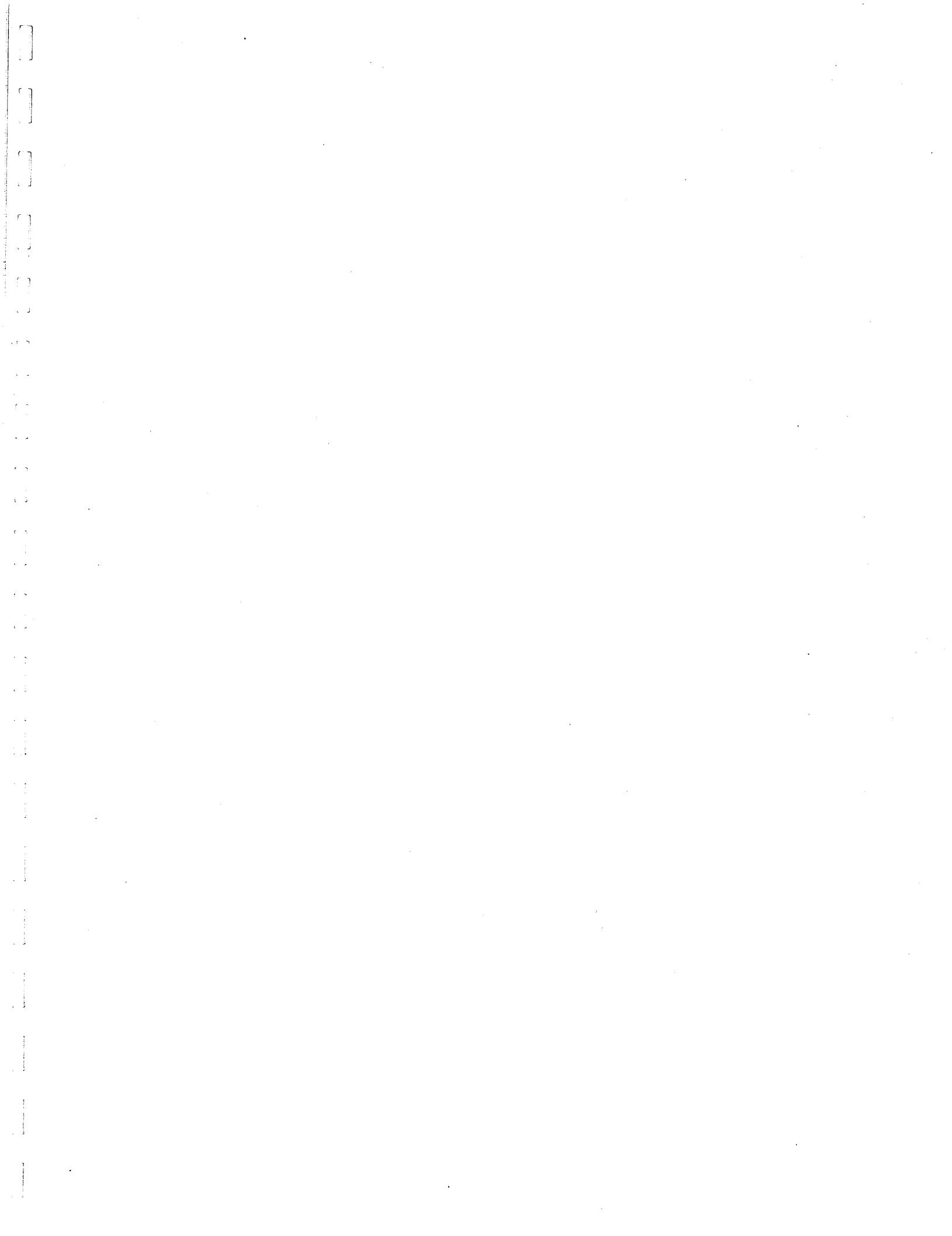
C. M. Anderson
113 Sanderling Dr.
Greenville, SC 29607

Don Young

Prepared By:



PREScott ENVIRONMENTAL ASSOCIATES, INC.
POST OFFICE BOX 2555, CHAPEL HILL, NORTH CAROLINA 27515-2555 (919) 942-8006



QUARTERLY
GROUNDWATER
MONITORING

Former Parkway Chevrolet Facility
205 Smoky Park Highway
Asheville, Buncombe County, North Carolina

NC DENR Facility I.D. #0-029190
NC DENR Incident I.D. #18332

Prescott Environmental Job Number 98-007

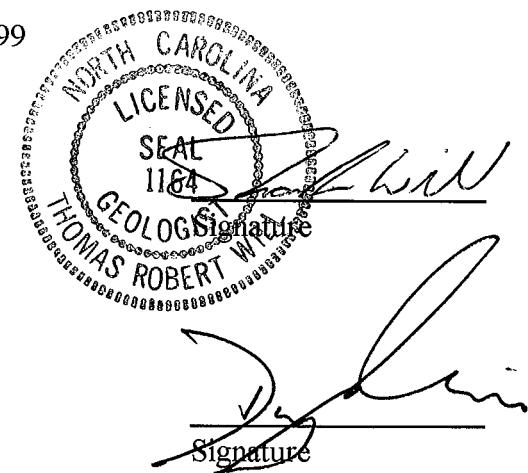
Prepared For:

Mr. Dan McInerny
Bose, McKinney & Evans
Indianapolis, Indiana

Issue Date: May 28, 1999

Thomas R. Will, PG
Consulting Professional Geologist
NC Licensed Geologist #1164

Douglas P. Guild, CEP
Senior Environmental Scientist



Prepared By:

Prescott Environmental Associates, Inc.
P.O. Box 2555
Chapel Hill, North Carolina 27515
(919) 942-8006 Phone (919) 967-4953 Facsimile

TABLE OF CONTENTS

EXECUTIVE SUMMARY	i
1.0 INTRODUCTION AND METHODOLOGY	1
2.0 QUARTERLY GROUNDWATER MONITORING/ANALYSIS	3
3.0 CONCLUSIONS AND RECOMMENDATIONS	4

FIGURES AND TABLES

Figure 1 Site Location Map
Figure 2 Site Base Map/Layout - Well Locations

Table 1 Summary of Current Groundwater Laboratory Results

APPENDICES

Appendix A Laboratory Analytical Reports

EXECUTIVE SUMMARY

Prescott Environmental Associates, Inc. (Prescott) completed quarterly groundwater monitoring at the former Parkway Chevrolet property at 205 Smoky Park Highway in Asheville, Buncombe County, North Carolina (the Site). Site work was completed Tuesday, May 11, 1999. The objective of this project was to determine the current level of VOCs/semi-VOCs in groundwater at the Site.

Groundwater samples were collected from the three monitoring wells on the Site. There was no contamination from VOCs or semi-VOCs for any of the groundwater samples submitted for analysis.

1.0 INTRODUCTION AND METHODOLOGY

Prescott completed quarterly groundwater monitoring for the three groundwater monitoring wells at the Site. The field activities were completed on Tuesday, May 11, 1999. These environmental services were authorized by Mr. Daniel P. McInerny, counsel for the former operator of the dealership at the Site. The purpose of this project was to determine the extent of VOCs and semi-VOCs in groundwater. This project was completed following the submittal and approval of a proposed work plan to North Carolina Department of Environment and Natural Resources, Groundwater Section, Asheville Regional Office.

Figures and Tables are included at the end of the body of this Report. Figure 1, Site Location Map, illustrates the physical location of the Site. Figure 2, Site Base Map, illustrates the groundwater monitoring well locations. The table details laboratory analytical results.

The areas where groundwater monitoring wells are located include the following:

Eastern Side of Main Service Area - one shallow well to 30 feet (MW-1);

South Side of Auto Detailing Shop Building - one shallow well to 22 feet (MW-2); and,

West Side of Parts Dept. Building - one shallow well to 25 feet (MW-3).

The wells were properly purged and developed prior to sampling. Groundwater elevation measurements were also collected.

This Report is provided for the sole use of Bose, McKinney & Evans, Young Automotive Group, and United Automotive Group, and their authorized parties. Use of this report by any other third parties will be at such parties' sole risk. Prescott disclaims any liability for any such use or reliance by third parties.

This report represents a reasonable effort to determine potential groundwater contamination, using the methodology described above and standard industry-accepted environmental assessment practices. However, it does not represent a guarantee that all potential contamination has been discovered at the Site or that the total extent of contamination has been determined at the Site.

2.0 QUARTERLY GROUNDWATER MONITORING/ANALYSIS

2.1 Introduction

A total of three (3) permanent groundwater monitoring wells were sampled on the Site for completion of this project.

2.2 Groundwater Gradient

The groundwater horizontal hydraulic gradient at the Site was determined by surveying the location and elevation of the groundwater monitoring wells to a common benchmark. The survey is accurate to the nearest 0.1 foot horizontally and nearest 0.01 foot vertically. Prescott personnel measured the distance from the static groundwater level to the top of the well casings to an accuracy of 0.01-foot. Using this water level information, Prescott previously compiled a hydraulic gradient map which can be found in a Comprehensive Site Assessment report issued August 5, 1998 (Figure 6). Prescott also calculated the horizontal groundwater gradient across the site to be 0.08 ft/ft. Based on data collected during previous measuring events, it was concluded that the groundwater gradient trends mainly in a southern direction, toward Smoky Park Highway.

2.3 Local Receptors

A receptor survey was previously completed by Prescott to determine if water supply wells are located in the immediate vicinity of the Site. The closest receptor water supply is the water supply well at the Monticello Mobile Home Park, located approximately 750 feet to the northeast of the subject property. This well is reported to serve approximately 50 mobile homes. Again, the local groundwater flow direction is toward the south, away from this property. The subject site is also topographically down gradient from this site. Most properties in the vicinity of the Site are served by the municipal water supply.

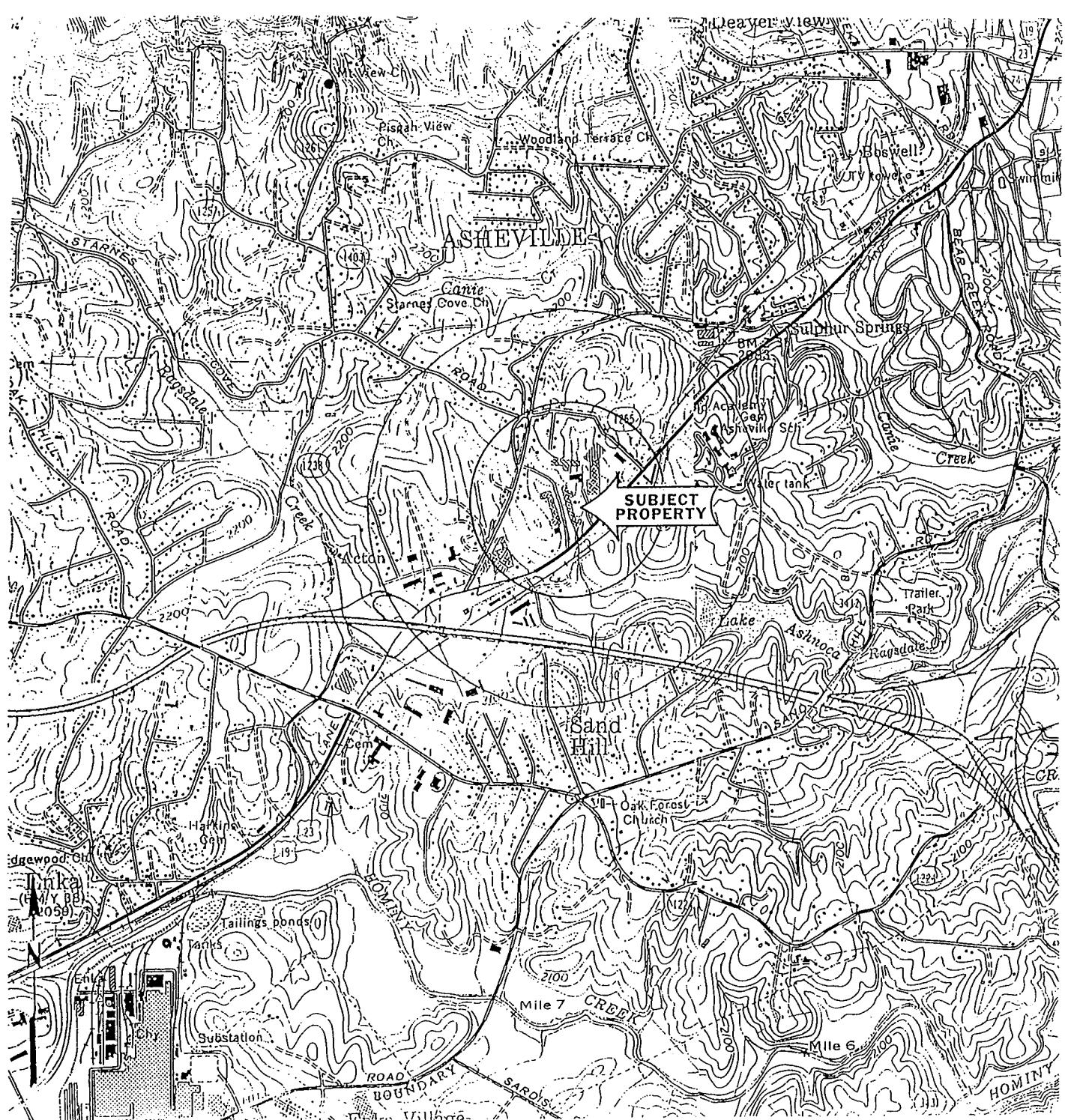
3.0 CONCLUSIONS AND RECOMMENDATIONS

The primary objective of this project was to complete quarterly groundwater monitoring for evidence of contamination from volatile and semi-volatile organic compounds. The Work Plan for this project was approved prior to the initiation of site activities by the Groundwater Section of the North Carolina Department of Environment and Natural Resources (NC DENR).

This project included the collection of samples from all three (3) groundwater monitoring wells on the Site. There was no contamination from VOCs or semi-VOCs reported for the three groundwater samples analyzed.

Further groundwater monitoring should proceed for the Site. Changing the monitoring interval to semi-annual should be considered, since no contamination is being reported in these wells.

FIGURES AND TABLES



PREScott ENVIRONMENTAL ASSOCIATES, INC.
POST OFFICE BOX 2555
CHAPEL HILL, NORTH CAROLINA 27515-2555
(919) 942-8006 PHONE (919) 967-4953 FACSIMILE

Project:
Quarterly Groundwater
Monitoring
Parkway Chevrolet
205 Smoky Park Highway

Asheville, NC

Job No:
98-007

Drawn By: CRG

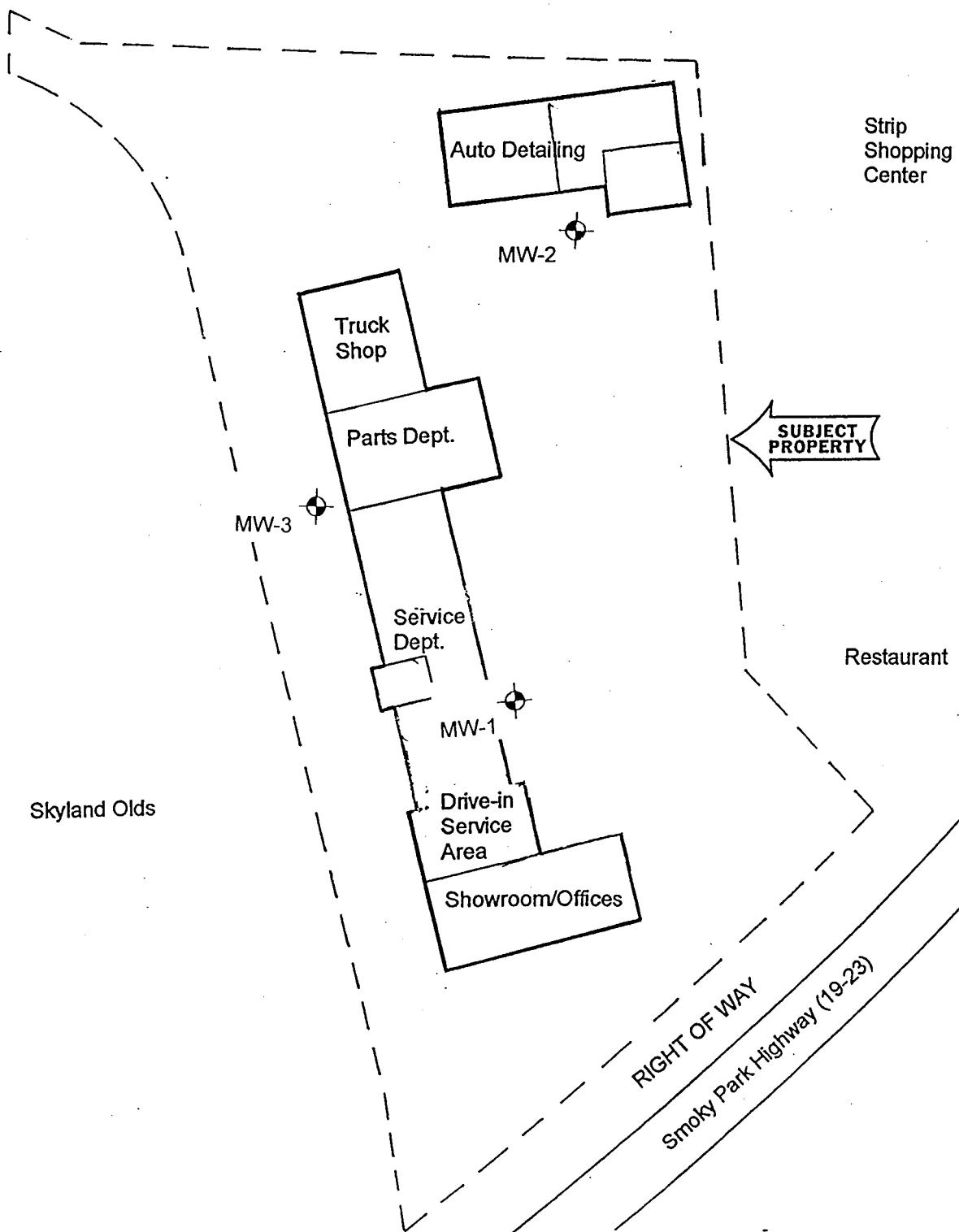
Figure No: 1
Site Map

Date: 3/23/98

Checked By: DPG

Scale: 1"=2000'

Carolina Truck & Body



 PREScott ENVIRONMENTAL ASSOCIATES, INC. POST OFFICE BOX 2555 CHAPEL HILL, NORTH CAROLINA 27515-2555 (919) 942-8006 PHONE (919) 967-4953 FACSIMILE	Project: PARKWAY CHEVROLET Asheville, NC Quarterly Groundwater Monitoring	Job No:	Figure No: 2
		98-007	Site Base Map/Layout
		Drawn By: CRG	Date: 3/8/98
		Checked By: DPG	Scale: 1" = 128'

TABLE 1

Quarterly
Groundwater Monitoring
Laboratory Analytical Results

Former Parkway Chevrolet Facility
205 Smoky Park Highway
Asheville, Buncombe County, NC

Sample I.D.	Date/Time	Monitoring Well	Lab Results
W-1	5/11/99 - 13:00	MW-1	502.2 - BQL ¹ 625+10 - BQL
W-2	5/11/99 - 15:00	MW-2	502.2 - BQL 625 + 10 - BQL
W-3	5/11/99 - 15:45	MW-3	502.2 - BQL 625 + 10 - BQL

¹BQL - Below Quantitation Limit

APPENDICES

APPENDIX A

LABORATORY ANALYTICAL REPORTS



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 99-05-439

Approved for Release by:

A handwritten signature in black ink that reads "Electa Brown". The signature is fluid and cursive, with a large, stylized "E" and "B".

Electa Brown, Project Manager

5/21/99

Date

Joel Grice
Laboratory Director

Idelis Williams
Corporate Quality Assurance Director

The attached analytical data package may not be reproduced except in full without the express written approval of this laboratory.
The results relate only to the samples tested.
Results reported on a Wet Weight Basis unless otherwise noted.

SPL Houston Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 9905439-01A-625
Operator : SC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV

Client SDG: h990513
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====



Certificate of Analysis No. H9-9905439-01

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.
312 W. Franklin Street
Chapel Hill, NC 27516
ATTN: Doug Guild

05/21/99

PROJECT: Parkway Chev.
SITE: Asheville, NC
SAMPLED BY: Prescott Environmental
SAMPLE ID: W-1

PROJECT NO: 98-007
MATRIX: WATER
DATE SAMPLED: 05/11/99 13:00:00
DATE RECEIVED: 05/12/99

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	5	ug/L
Acenaphthylene	ND	5	ug/L
Anthracene	ND	5	ug/L
Benzidine	ND	20	ug/L
Benzo(a)Anthracene	ND	5	ug/L
Benzo(a)Pyrene	ND	5	ug/L
Benzo(b)Fluoranthene	ND	5	ug/L
Benzo(g,h,i)Perylene	ND	5	ug/L
Benzo(k)Fluoranthene	ND	5	ug/L
4-Bromophenylphenyl ether	ND	5	ug/L
Butylbenzylphthalate	ND	5	ug/L
4-Chloro-3-Methylphenol	ND	5	ug/L
bis(2-Chloroethoxy)Methane	ND	5	ug/L
bis(2-Chloroethyl)Ether	ND	5	ug/L
bis(2-Chloroisopropyl)Ether	ND	5	ug/L
2-Chloronaphthalene	ND	5	ug/L
2-Chlorophenol	ND	5	ug/L
4-Chlorophenylphenyl ether	ND	5	ug/L
Chrysene	ND	5	ug/L
Di-n-Butylphthalate	ND	5	ug/L
Di-n-Octyl Phthalate	ND	5	ug/L
Dibenz(a,h)Anthracene	ND	5	ug/L
1,2-Dichlorobenzene	ND	5	ug/L
1,3-Dichlorobenzene	ND	5	ug/L
1,4-Dichlorobenzene	ND	5	ug/L
3,3'-Dichlorobenzidine	ND	5	ug/L
2,4-Dichlorophenol	ND	5	ug/L
Diethylphthalate	ND	5	ug/L
Dimethyl Phthalate	ND	5	ug/L
2,4-Dimethylphenol	ND	5	ug/L
4,6-Dinitro-2-Methylphenol	ND	25	ug/L
2,4-Dinitrophenol	ND	25	ug/L
2,4-Dinitrotoluene	ND	5	ug/L
2,6-Dinitrotoluene	ND	5	ug/L
1,2-Diphenylhydrazine	ND	5	ug/L
bis(2-Ethylhexyl)Phthalate	ND	5	ug/L
Fluoranthene	ND	5	ug/L
Fluorene	ND	5	ug/L

METHOD: USEPA 625
(continued on next page)



Certificate of Analysis No. H9-9905439-01

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.

SAMPLE ID: W-1

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
Hexachlorobenzene	ND	5	ug/L
Hexachlorobutadiene	ND	5	ug/L
Hexachlorocyclopentadiene	ND	5	ug/L
Hexachloroethane	ND	5	ug/L
Indeno (1, 2, 3-cd) Pyrene	ND	5	ug/L
Isophorone	ND	5	ug/L
N-Nitroso-Di-n-Propylamine	ND	5	ug/L
N-Nitrosodiphenylamine	ND	5	ug/L
Naphthalene	ND	5	ug/L
Nitrobenzene	ND	5	ug/L
2-Nitrophenol	ND	5	ug/L
4-Nitrophenol	ND	25	ug/L
Pentachlorophenol	ND	25	ug/L
Phenanthrene	ND	5	ug/L
Phenol	ND	5	ug/L
Pyrene	ND	5	ug/L
1, 2, 4-Trichlorobenzene	ND	5	ug/L
2, 4, 6-Trichlorophenol	ND	5	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
2-Fluorobiphenyl	50 ug/L	84	43	116
2-Fluorophenol	75 ug/L	40	21	110
Nitrobenzene-d5	50 ug/L	84	35	114
Phenol-d5	75 ug/L	28	10	110
Terphenyl-d14	50 ug/L	78	33	141
2, 4, 6-Tribromophenol	75 ug/L	92	10	123

ANALYZED BY: SC

DATE/TIME: 05/14/99 01:53:00

EXTRACTED BY: KL

DATE/TIME: 05/12/99 16:00:00

METHOD: USEPA 625

NOTES: * - Practical Quantitation Limit

ND - Not Detected

NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL North Carolina Certification # 443



Certificate of Analysis No. H9-9905439-01

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.
312 W. Franklin Street
Chapel Hill, NC 27516
ATTN: Doug Guild

05/21/99

PROJECT: Parkway Chev.
SITE: Asheville, NC
SAMPLED BY: Prescott Environmental
SAMPLE ID: W-1

PROJECT NO: 98-007
MATRIX: WATER
DATE SAMPLED: 05/11/99 13:00:00
DATE RECEIVED: 05/12/99

PARAMETER	ANALYTICAL DATA		
	RESULTS	QL *	UNITS
Dichlorodifluoromethane	ND	0.50	µg/L
Chloromethane	ND	0.50	µg/L
Vinyl chloride	ND	0.50	µg/L
Bromomethane	ND	0.50	µg/L
Chloroethane	ND	0.50	µg/L
Trichlorofluoromethane	ND	0.50	µg/L
1,1-Dichloroethene	ND	0.50	µg/L
Methylene Chloride	ND	0.50	µg/L
trans-1,2-Dichloroethene	ND	0.50	µg/L
1,1-Dichloroethane	ND	0.50	µg/L
2,2-Dichloropropane	ND	0.50	µg/L
cis-1,2-Dichloroethene	ND	0.50	µg/L
Chloroform	ND	0.50	µg/L
Bromochloromethane	ND	0.50	µg/L
1,1,1-Trichloroethane	ND	0.50	µg/L
1,1-Dichloropropene	ND	0.50	µg/L
Carbon Tetrachloride	ND	0.50	µg/L
Benzene	ND	0.50	µg/L
1,2-Dichloroethane	ND	0.50	µg/L
Trichloroethene	ND	0.50	µg/L
1,2-Dichloropropane	ND	0.50	µg/L
Bromodichloromethane	ND	0.50	µg/L
Dibromomethane	ND	0.50	µg/L
cis-1,3-Dichloropropene	ND	0.50	µg/L
Toluene	ND	0.50	µg/L
trans-1,3-Dichloropropene	ND	0.50	µg/L
1,1,2-Trichloroethane	ND	0.50	µg/L
Tetrachloroethene	ND	0.50	µg/L
1,3-Dichloropropane	ND	0.50	µg/L
Dibromochloromethane	ND	0.50	µg/L
1,2-Dibromoethane	ND	0.50	µg/L
Chlorobenzene	ND	0.50	µg/L
Ethyl benzene	ND	0.50	µg/L
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L
Xylenes	ND	0.50	µg/L
Styrene	ND	0.50	µg/L
Isopropylbenzene	ND	0.50	µg/L
Bromoform	ND	0.50	µg/L

METHOD: 502.2 - Drinking Water Volatiles
(continued on next page)



Certificate of Analysis No. H9-9905439-01

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.

SAMPLE ID: W-1

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	QL *	UNITS
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L
1,2,3-Trichloropropane	ND	0.50	µg/L
n-Propyl benzene	ND	0.50	µg/L
Bromobenzene	ND	0.50	µg/L
1,3,5-Trimethylbenzene	ND	0.50	µg/L
2-Chlorotoluene	ND	0.50	µg/L
4-Chlorotoluene	ND	0.50	µg/L
tert-Butylbenzene	ND	0.50	µg/L
1,2,4-Trimethylbenzene	ND	0.50	µg/L
sec-Butylbenzene	ND	0.50	µg/L
p-Isopropyltoluene	ND	0.50	µg/L
1,3-Dichlorobenzene	ND	0.50	µg/L
1,4-Dichlorobenzene	ND	0.50	µg/L
n-Butylbenzene	ND	0.50	µg/L
1,2-Dichlorobenzene	ND	0.50	µg/L
1,2-Dibromo-3-chloropropane	ND	0.50	µg/L
1,2,4-Trichlorobenzene	ND	0.50	µg/L
Hexachlorobutadiene	ND	0.50	µg/L
Naphthalene	ND	0.50	µg/L
1,2,3-Trichlorobenzene	ND	0.50	µg/L

SURROGATES

Fluorobenzene

% RECOVERY

93

ANALYZED BY: YN

DATE/TIME: 05/17/99 15:50:00

METHOD: 502.2 - Drinking Water Volatiles

NOTES: * - Quantitation Limit

ND - Not Detected

NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL North Carolina Certification # 443

SPL Houston Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 9905439-02A-625
Operator : SC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV

Client SDG: h990513
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====



Certificate of Analysis No. H9-9905439-02

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.
312 W. Franklin Street
Chapel Hill, NC 27516
ATTN: Doug Guild

05/21/99

PROJECT: Parkway Chev.
SITE: Asheville, NC
SAMPLED BY: Prescott Environmental
SAMPLE ID: W-2

PROJECT NO: 98-007
MATRIX: WATER
DATE SAMPLED: 05/11/99 15:00:00
DATE RECEIVED: 05/12/99

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	5	ug/L
Acenaphthylene	ND	5	ug/L
Anthracene	ND	5	ug/L
Benzidine	ND	20	ug/L
Benzo(a)Anthracene	ND	5	ug/L
Benzo(a)Pyrene	ND	5	ug/L
Benzo(b)Fluoranthene	ND	5	ug/L
Benzo(g,h,i)Perylene	ND	5	ug/L
Benzo(k)Fluoranthene	ND	5	ug/L
4-Bromophenylphenyl ether	ND	5	ug/L
Butylbenzylphthalate	ND	5	ug/L
4-Chloro-3-Methylphenol	ND	5	ug/L
bis(2-Chloroethoxy)Methane	ND	5	ug/L
bis(2-Chloroethyl)Ether	ND	5	ug/L
bis(2-Chloroisopropyl)Ether	ND	5	ug/L
2-Chloronaphthalene	ND	5	ug/L
2-Chlorophenol	ND	5	ug/L
4-Chlorophenylphenyl ether	ND	5	ug/L
Chrysene	ND	5	ug/L
Di-n-Butylphthalate	ND	5	ug/L
Di-n-Octyl Phthalate	ND	5	ug/L
Dibenz(a,h)Anthracene	ND	5	ug/L
1,2-Dichlorobenzene	ND	5	ug/L
1,3-Dichlorobenzene	ND	5	ug/L
1,4-Dichlorobenzene	ND	5	ug/L
3,3'-Dichlorobenzidine	ND	5	ug/L
2,4-Dichlorophenol	ND	5	ug/L
Diethylphthalate	ND	5	ug/L
Dimethyl Phthalate	ND	5	ug/L
2,4-Dimethylphenol	ND	5	ug/L
4,6-Dinitro-2-Methylphenol	ND	25	ug/L
2,4-Dinitrophenol	ND	25	ug/L
2,4-Dinitrotoluene	ND	5	ug/L
2,6-Dinitrotoluene	ND	5	ug/L
1,2-Diphenylhydrazine	ND	5	ug/L
bis(2-Ethylhexyl)Phthalate	ND	5	ug/L
Fluoranthene	ND	5	ug/L
Fluorene	ND	5	ug/L

METHOD: USEPA 625
(continued on next page)



Certificate of Analysis No. H9-9905439-02

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.

SAMPLE ID: W-2

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
Hexachlorobenzene	ND	5	ug/L
Hexachlorobutadiene	ND	5	ug/L
Hexachlorocyclopentadiene	ND	5	ug/L
Hexachloroethane	ND	5	ug/L
Indeno(1,2,3-cd) Pyrene	ND	5	ug/L
Isophorone	ND	5	ug/L
N-Nitroso-Di-n-Propylamine	ND	5	ug/L
N-Nitrosodiphenylamine	ND	5	ug/L
Naphthalene	ND	5	ug/L
Nitrobenzene	ND	5	ug/L
2-Nitrophenol	ND	5	ug/L
4-Nitrophenol	ND	25	ug/L
Pentachlorophenol	ND	25	ug/L
Phenanthrrene	ND	5	ug/L
Phenol	ND	5	ug/L
Pyrene	ND	5	ug/L
1,2,4-Trichlorobenzene	ND	5	ug/L
2,4,6-Trichlorophenol	ND	5	ug/L

SURROGATES

	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
2-Fluorobiphenyl	50 ug/L	82	43	116
2-Fluorophenol	75 ug/L	40	21	110
Nitrobenzene-d5	50 ug/L	82	35	114
Phenol-d5	75 ug/L	28	10	110
Terphenyl-d14	50 ug/L	68	33	141
2,4,6-Tribromophenol	75 ug/L	93	10	123

ANALYZED BY: SC

DATE/TIME: 05/14/99 02:25:00

EXTRACTED BY: KL

DATE/TIME: 05/12/99 16:00:00

METHOD: USEPA 625

NOTES: * - Practical Quantitation Limit

ND - Not Detected

NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL North Carolina Certification # 443



Certificate of Analysis No. H9-9905439-02

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.
312 W. Franklin Street
Chapel Hill, NC 27516
ATTN: Doug Guild

05/21/99

PROJECT: Parkway Chev.
SITE: Asheville, NC
SAMPLED BY: Prescott Environmental
SAMPLE ID: W-2

PROJECT NO: 98-007
MATRIX: WATER
DATE SAMPLED: 05/11/99 15:00:00
DATE RECEIVED: 05/12/99

PARAMETER	ANALYTICAL DATA		
	RESULTS	QL *	UNITS
Dichlorodifluoromethane	ND	0.50	µg/L
Chloromethane	ND	0.50	µg/L
Vinyl chloride	ND	0.50	µg/L
Bromomethane	ND	0.50	µg/L
Chloroethane	ND	0.50	µg/L
Trichlorodifluoromethane	ND	0.50	µg/L
1,1-Dichloroethene	ND	0.50	µg/L
Methylene Chloride	ND	0.50	µg/L
trans-1,2-Dichloroethene	ND	0.50	µg/L
1,1-Dichloroethane	ND	0.50	µg/L
2,2-Dichloropropane	ND	0.50	µg/L
cis-1,2-Dichloroethene	ND	0.50	µg/L
Chloroform	ND	0.50	µg/L
Bromochloromethane	ND	0.50	µg/L
1,1,1-Trichloroethane	ND	0.50	µg/L
1,1-Dichloropropene	ND	0.50	µg/L
Carbon Tetrachloride	ND	0.50	µg/L
Benzene	ND	0.50	µg/L
1,2-Dichloroethane	ND	0.50	µg/L
Trichloroethene	ND	0.50	µg/L
1,2-Dichloropropane	ND	0.50	µg/L
Bromodichloromethane	ND	0.50	µg/L
Dibromomethane	ND	0.50	µg/L
cis-1,3-Dichloropropene	ND	0.50	µg/L
Toluene	ND	0.50	µg/L
trans-1,3-Dichloropropene	ND	0.50	µg/L
1,1,2-Trichloroethane	ND	0.50	µg/L
Tetrachloroethene	ND	0.50	µg/L
1,3-Dichloropropane	ND	0.50	µg/L
Dibromochloromethane	ND	0.50	µg/L
1,2-Dibromoethane	ND	0.50	µg/L
Chlorobenzene	ND	0.50	µg/L
Ethyl benzene	ND	0.50	µg/L
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L
Xylenes	ND	0.50	µg/L
Styrene	ND	0.50	µg/L
Isopropylbenzene	ND	0.50	µg/L
Bromoform	ND	0.50	µg/L

METHOD: 502.2 - Drinking Water Volatiles
(continued on next page)



Certificate of Analysis No. H9-9905439-02

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.

SAMPLE ID: W-2

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	QL *	UNITS
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L
1,2,3-Trichloropropane	ND	0.50	µg/L
n-Propyl benzene	ND	0.50	µg/L
Bromobenzene	ND	0.50	µg/L
1,3,5-Trimethylbenzene	ND	0.50	µg/L
2-Chlorotoluene	ND	0.50	µg/L
4-Chlorotoluene	ND	0.50	µg/L
tert-Butylbenzene	ND	0.50	µg/L
1,2,4-Trimethylbenzene	ND	0.50	µg/L
sec-Butylbenzene	ND	0.50	µg/L
p-Isopropyltoluene	ND	0.50	µg/L
1,3-Dichlorobenzene	ND	0.50	µg/L
1,4-Dichlorobenzene	ND	0.50	µg/L
n-Butylbenzene	ND	0.50	µg/L
1,2-Dichlorobenzene	ND	0.50	µg/L
1,2-Dibromo-3-chloropropane	ND	0.50	µg/L
1,2,4-Trichlorobenzene	ND	0.50	µg/L
Hexachlorobutadiene	ND	0.50	µg/L
Naphthalene	ND	0.50	µg/L
1,2,3-Trichlorobenzene	ND	0.50	µg/L

SURROGATES

Fluorobenzene

% RECOVERY

93

ANALYZED BY: YN

DATE/TIME: 05/17/99 16:27:00

METHOD: 502.2 - Drinking Water Volatiles

NOTES: * - Quantitation Limit

ND - Not Detected

NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL North Carolina Certification # 443

SPL Houston Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 9905439-03A-625
Operator : SC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV

Client SDG: h990513
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====



Certificate of Analysis No. H9-9905439-03

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.
312 W. Franklin Street
Chapel Hill, NC 27516
ATTN: Doug Guild

05/21/99

PROJECT: Parkway Chev.
SITE: Asheville, NC
SAMPLED BY: Prescott Environmental
SAMPLE ID: W-3

PROJECT NO: 98-007
MATRIX: WATER
DATE SAMPLED: 05/11/99 15:45:00
DATE RECEIVED: 05/12/99

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Acenaphthene	ND	5	ug/L
Acenaphthylene	ND	5	ug/L
Anthracene	ND	5	ug/L
Benzidine	ND	20	ug/L
Benzo(a)Anthracene	ND	5	ug/L
Benzo(a)Pyrene	ND	5	ug/L
Benzo(b)Fluoranthene	ND	5	ug/L
Benzo(g,h,i)Perylene	ND	5	ug/L
Benzo(k)Fluoranthene	ND	5	ug/L
4-Bromophenylphenyl ether	ND	5	ug/L
Butylbenzylphthalate	ND	5	ug/L
4-Chloro-3-Methylphenol	ND	5	ug/L
bis(2-Chloroethoxy)Methane	ND	5	ug/L
bis(2-Chloroethyl)Ether	ND	5	ug/L
bis(2-Chloroisopropyl)Ether	ND	5	ug/L
2-Chloronaphthalene	ND	5	ug/L
2-Chlorophenol	ND	5	ug/L
4-Chlorophenylphenyl ether	ND	5	ug/L
Chrysene	ND	5	ug/L
Di-n-Butylphthalate	ND	5	ug/L
Di-n-Octyl Phthalate	ND	5	ug/L
Dibenz(a,h)Anthracene	ND	5	ug/L
1,2-Dichlorobenzene	ND	5	ug/L
1,3-Dichlorobenzene	ND	5	ug/L
1,4-Dichlorobenzene	ND	5	ug/L
3,3'-Dichlorobenzidine	ND	5	ug/L
2,4-Dichlorophenol	ND	5	ug/L
Diethylphthalate	ND	5	ug/L
Dimethyl Phthalate	ND	5	ug/L
2,4-Dimethylphenol	ND	5	ug/L
4,6-Dinitro-2-Methylphenol	ND	25	ug/L
2,4-Dinitrophenol	ND	25	ug/L
2,4-Dinitrotoluene	ND	5	ug/L
2,6-Dinitrotoluene	ND	5	ug/L
1,2-Diphenylhydrazine	ND	5	ug/L
bis(2-Ethylhexyl)Phthalate	ND	5	ug/L
Fluoranthene	ND	5	ug/L
Fluorene	ND	5	ug/L

METHOD: USEPA 625
(continued on next page)



Certificate of Analysis No. H9-9905439-03

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.

SAMPLE ID: W-3

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	PQL*	UNITS
Hexachlorobenzene	ND	5	ug/L
Hexachlorobutadiene	ND	5	ug/L
Hexachlorocyclopentadiene	ND	5	ug/L
Hexachloroethane	ND	5	ug/L
Indeno (1,2,3-cd) Pyrene	ND	5	ug/L
Isophorone	ND	5	ug/L
N-Nitroso-Di-n-Propylamine	ND	5	ug/L
N-Nitrosodiphenylamine	ND	5	ug/L
Naphthalene	ND	5	ug/L
Nitrobenzene	ND	5	ug/L
2-Nitrophenol	ND	5	ug/L
4-Nitrophenol	ND	25	ug/L
Pentachlorophenol	ND	25	ug/L
Phenanthrene	ND	5	ug/L
Phenol	ND	5	ug/L
Pyrene	ND	5	ug/L
1,2,4-Trichlorobenzene	ND	5	ug/L
2,4,6-Trichlorophenol	ND	5	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
2-Fluorobiphenyl	50 ug/L	86	43	116
2-Fluorophenol	75 ug/L	40	21	110
Nitrobenzene-d5	50 ug/L	84	35	114
Phenol-d5	75 ug/L	28	10	110
Terphenyl-d14	50 ug/L	66	33	141
2,4,6-Tribromophenol	75 ug/L	92	10	123

ANALYZED BY: SC

DATE/TIME: 05/14/99 02:58:00

EXTRACTED BY: KL

DATE/TIME: 05/12/99 16:00:00

METHOD: USEPA 625

NOTES: * - Practical Quantitation Limit

ND - Not Detected

NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL North Carolina Certification # 443



Certificate of Analysis No. H9-9905439-03

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.
312 W. Franklin Street
Chapel Hill, NC 27516
ATTN: Doug Guild

05/21/99

PROJECT: Parkway Chev.
SITE: Asheville, NC
SAMPLED BY: Prescott Environmental
SAMPLE ID: W-3

PROJECT NO: 98-007
MATRIX: WATER
DATE SAMPLED: 05/11/99 15:45:00
DATE RECEIVED: 05/12/99

PARAMETER	RESULTS	QL *	UNITS
Dichlorodifluoromethane	ND	0.50	µg/L
Chloromethane	ND	0.50	µg/L
Vinyl chloride	ND	0.50	µg/L
Bromomethane	ND	0.50	µg/L
Chloroethane	ND	0.50	µg/L
Trichlorofluoromethane	ND	0.50	µg/L
1,1-Dichloroethene	ND	0.50	µg/L
Methylene Chloride	ND	0.50	µg/L
trans-1,2-Dichloroethene	ND	0.50	µg/L
1,1-Dichloroethane	ND	0.50	µg/L
2,2-Dichloropropane	ND	0.50	µg/L
cis-1,2-Dichloroethene	ND	0.50	µg/L
Chloroform	ND	0.50	µg/L
Bromochloromethane	ND	0.50	µg/L
1,1,1-Trichloroethane	ND	0.50	µg/L
1,1-Dichloropropene	ND	0.50	µg/L
Carbon Tetrachloride	ND	0.50	µg/L
Benzene	ND	0.50	µg/L
1,2-Dichloroethane	ND	0.50	µg/L
Trichloroethene	ND	0.50	µg/L
1,2-Dichloropropane	ND	0.50	µg/L
Bromodichloromethane	ND	0.50	µg/L
Dibromomethane	ND	0.50	µg/L
cis-1,3-Dichloropropene	ND	0.50	µg/L
Toluene	ND	0.50	µg/L
trans-1,3-Dichloropropene	ND	0.50	µg/L
1,1,2-Trichloroethane	ND	0.50	µg/L
Tetrachloroethene	ND	0.50	µg/L
1,3-Dichloropropane	ND	0.50	µg/L
Dibromochloromethane	ND	0.50	µg/L
1,2-Dibromoethane	ND	0.50	µg/L
Chlorobenzene	ND	0.50	µg/L
Ethyl benzene	ND	0.50	µg/L
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L
Xylenes	ND	0.50	µg/L
Styrene	ND	0.50	µg/L
Isopropylbenzene	ND	0.50	µg/L
Bromoform	ND	0.50	µg/L

METHOD: 502.2 - Drinking Water Volatiles
(continued on next page)



Certificate of Analysis No. H9-9905439-03

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.

SAMPLE ID: W-3

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	QL *	UNITS
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L
1,2,3-Trichloropropane	ND	0.50	µg/L
n-Propyl benzene	ND	0.50	µg/L
Bromobenzene	ND	0.50	µg/L
1,3,5-Trimethylbenzene	ND	0.50	µg/L
2-Chlorotoluene	ND	0.50	µg/L
4-Chlorotoluene	ND	0.50	µg/L
tert-Butylbenzene	ND	0.50	µg/L
1,2,4-Trimethylbenzene	ND	0.50	µg/L
sec-Butylbenzene	ND	0.50	µg/L
p-Isopropyltoluene	ND	0.50	µg/L
1,3-Dichlorobenzene	ND	0.50	µg/L
1,4-Dichlorobenzene	ND	0.50	µg/L
n-Butylbenzene	ND	0.50	µg/L
1,2-Dichlorobenzene	ND	0.50	µg/L
1,2-Dibromo-3-chloropropane	ND	0.50	µg/L
1,2,4-Trichlorobenzene	ND	0.50	µg/L
Hexachlorobutadiene	ND	0.50	µg/L
Naphthalene	ND	0.50	µg/L
1,2,3-Trichlorobenzene	ND	0.50	µg/L

SURROGATES

% RECOVERY

Fluorobenzene

93

ANALYZED BY: YN

DATE/TIME: 05/17/99 17:04:00

METHOD: 502.2 - Drinking Water Volatiles

NOTES: * - Quantitation Limit

ND - Not Detected

NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL North Carolina Certification # 443



Certificate of Analysis No. H9-9905439-04

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.
312 W. Franklin Street
Chapel Hill, NC 27516
ATTN: Doug Guild

05/21/99

PROJECT: Parkway Chev.
SITE: Asheville, NC
SAMPLED BY: Provided by SPL
SAMPLE ID: Trip Blank 5/7/99

PROJECT NO: 98-007
MATRIX: WATER
DATE SAMPLED: 05/11/99
DATE RECEIVED: 05/12/99

PARAMETER	ANALYTICAL DATA		
	RESULTS	QL *	UNITS
Dichlorodifluoromethane	ND	0.50	µg/L
Chloromethane	ND	0.50	µg/L
Vinyl chloride	ND	0.50	µg/L
Bromomethane	ND	0.50	µg/L
Chloroethane	ND	0.50	µg/L
Trichlorofluoromethane	ND	0.50	µg/L
1,1-Dichloroethene	ND	0.50	µg/L
Methylene Chloride	ND	0.50	µg/L
trans-1,2-Dichloroethene	ND	0.50	µg/L
1,1-Dichloroethane	ND	0.50	µg/L
2,2-Dichloropropane	ND	0.50	µg/L
cis-1,2-Dichloroethene	ND	0.50	µg/L
Chloroform	ND	0.50	µg/L
Bromochloromethane	ND	0.50	µg/L
1,1,1-Trichloroethane	ND	0.50	µg/L
1,1-Dichloropropene	ND	0.50	µg/L
Carbon Tetrachloride	ND	0.50	µg/L
Benzene	ND	0.50	µg/L
1,2-Dichloroethane	ND	0.50	µg/L
Trichloroethene	ND	0.50	µg/L
1,2-Dichloropropene	ND	0.50	µg/L
Bromodichloromethane	ND	0.50	µg/L
Dibromomethane	ND	0.50	µg/L
cis-1,3-Dichloropropene	ND	0.50	µg/L
Toluene	ND	0.50	µg/L
trans-1,3-Dichloropropene	ND	0.50	µg/L
1,1,2-Trichloroethane	ND	0.50	µg/L
Tetrachloroethene	ND	0.50	µg/L
1,3-Dichloropropane	ND	0.50	µg/L
Dibromochloromethane	ND	0.50	µg/L
1,2-Dibromoethane	ND	0.50	µg/L
Chlorobenzene	ND	0.50	µg/L
Ethyl benzene	ND	0.50	µg/L
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L
Xylenes	ND	0.50	µg/L
Styrene	ND	0.50	µg/L
Isopropylbenzene	ND	0.50	µg/L
Bromoform	ND	0.50	µg/L

METHOD: 502.2 - Drinking Water Volatiles
(continued on next page)



Certificate of Analysis No. H9-9905439-04

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Prescott Environmental Assoc.

SAMPLE ID: Trip Blank 5/7/99

ANALYTICAL DATA (continued)

PARAMETER	RESULTS	QL *	UNITS
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L
1,2,3-Trichloropropane	ND	0.50	µg/L
n-Propyl benzene	ND	0.50	µg/L
Bromobenzene	ND	0.50	µg/L
1,3,5-Trimethylbenzene	ND	0.50	µg/L
2-Chlorotoluene	ND	0.50	µg/L
4-Chlorotoluene	ND	0.50	µg/L
tert-Butylbenzene	ND	0.50	µg/L
1,2,4-Trimethylbenzene	ND	0.50	µg/L
sec-Butylbenzene	ND	0.50	µg/L
p-Isopropyltoluene	ND	0.50	µg/L
1,3-Dichlorobenzene	ND	0.50	µg/L
1,4-Dichlorobenzene	ND	0.50	µg/L
n-Butylbenzene	ND	0.50	µg/L
1,2-Dichlorobenzene	ND	0.50	µg/L
1,2-Dibromo-3-chloropropane	ND	0.50	µg/L
1,2,4-Trichlorobenzene	ND	0.50	µg/L
Hexachlorobutadiene	ND	0.50	µg/L
Naphthalene	ND	0.50	µg/L
1,2,3-Trichlorobenzene	ND	0.50	µg/L

SURROGATES

% RECOVERY

Fluorobenzene

93

ANALYZED BY: YN

DATE/TIME: 05/17/99 15:13:00

METHOD: 502.2 - Drinking Water Volatiles

NOTES: * - Quantitation Limit

ND - Not Detected

NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL North Carolina Certification # 443

QUALITY CONTROL
DOCUMENTATION

SPL Houston Labs

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: BLANK-625
Operator : SC
Sample Location:
Sample Matrix: WATER
Analysis Type: SV

Client SDG: h990513
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

SPL Houston Labs

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 9905426-01AMS-625
Level: LOW
Data Type: MS DATA
SpikeList File: 625.spk
Sublist File: 625.sub
Method File: /var/chem/h.i/h990514.b/h625.m
Misc Info: E132F6/H132B06/H134CC1A

Client SDG: h990514
Fraction: SV
Operator: SC
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
4 Phenol	50	15	30.00	5-112
6 2-Chlorophenol	50	23	46.00	23-134
9 1,4-Dichlorobenzen	50	18	36.00	20-124
12 N-Nitroso-di-n-pro	50	28	56.00	1-230
21 1,2,4-Trichloroben	50	22	44.00	44-142
25 4-Chloro-3-methylp	50	31	62.00	22-147
34 Acenaphthene	50	32	64.00	47-145
36 4-Nitrophenol	50	18	36.00	1-132
37 2,4-Dinitrotoluene	50	33	66.00	39-139
47 Pentachlorophenol	50	30	60.00	14-176
53 Pyrene	50	46	92.00	52-115
50 Anthracene	50	41	82.00	27-133
57 Benzo [a] anthracene	50	32	64.00	33-143
62 Benzo [b] fluoranthe	50	34	68.00	24-159
63 Benzo [k] fluoranthe	50	22	44.00	11-162
64 Benzo [a]pyrene	50	29	58.00	17-163
68 Benzo [g,h,i]peryle	50	28	56.00	1-219
55 Butylbenzylphthala	50	28	56.00	1-152
5 bis(2-Chloroethyl)	50	24	48.00	12-158
19 bis(2-Chloroethoxy	50	26	52.00	33-184
11 bis(2-chloroisopro	50	21	42.00	36-166
60 bis(2-Ethylhexyl)p	50	31	62.00	8-158
45 4-Bromophenyl-phen	50	28	56.00	53-127
29 2-Chloronaphthalen	50	25	50.00*	60-118
39 4-Chlorophenyl-phe	50	28	56.00	25-158
59 Chrysene	50	32	64.00	17-168
67 Dibenz [a,h] anthrac	50	26	52.00	1-227
51 Di-n-butylphthalat	50	29	58.00	1-118
10 1,2-Dichlorobenzen	50	19	38.00	32-129
7 1,3-Dichlorobenzen	50	18	36.00	1-172
38 Diethylphthalate	50	31	62.00	1-114
30 Dimethylphthalate	50	29	58.00	1-112
32 Acenaphthylene	50	40-27=13	26.00*	33-145

Report Date: 17-May-1999 09:02

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
31 2,6-Dinitrotoluene	50	32	64.00	50-158
61 Di-n-octylphthalat	50	31	62.00	4-146
52 Fluoranthene	50	38	76.00	26-137
40 Fluorene	50	42	84.00	59-121
46 Hexachlorobenzene	50	24	48.00	1-152
24 Hexachlorobutadien	50	22	44.00	24-116
13 Hexachloroethane	50	18	36.00*	40-113
66 Indeno[1,2,3-cd]py	50	28	56.00	1-171
16 Isophorone	50	25	50.00	21-196
23 Naphthalene	50	24	48.00	21-133
15 Nitrobenzene	50	24	48.00	35-180
49 Phenanthrene	50	69	138.00*	54-120
20 2,4-Dichlorophenol	50	29	58.00	39-135
18 2,4-Dimethylphenol	50	29	58.00	32-119
35 2,4-Dinitrophenol	50	30	60.00	1-191
41 4,6-Dinitro-2-meth	50	29	58.00	1-181
17 2-Nitrophenol	50	29	58.00	29-182
27 2,4,6-Trichlorophe	50	28	56.00	37-144
56 3,3'-Dichlorobenz	50	0	*	1-261
26 Hexachlorocycloopen	50	14	28.00	1-150
42 n-Nitrosodiphenyla	50	29	58.00	1-150
138 Benzidine	50	0	*	1-150

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 28 2-Fluorobiphenyl	50	24	48.00	43-116
\$ 1 2-Fluorophenol	75	24	32.00	21-110
\$ 14 Nitrobenzene-d5	50	25	50.00	35-114
\$ 3 Phenol-d5	75	19	25.33	10-110
\$ 54 Terphenyl-d14	50	19	38.00	33-141
\$ 44 2,4,6-Tribromophen	75	41	54.67	10-123

* = Amount outside QC limits due to matrix interference

SPL Houston Labs

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS-625/1X
Level: LOW
Data Type: MS DATA
SpikeList File: 625.spk
Sublist File: 625.sub
Method File: /var/chem/h.i/h990513.b/h625.m
Misc Info: E132F6/H132B06/H133CC1X

Client SDG: h990513
Fraction: SV
Operator: SC
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
4 Phenol	50	18	36.00	5-112
6 2-Chlorophenol	50	38	76.00	23-134
9 1,4-Dichlorobenzene	50	30	60.00	20-124
12 N-Nitroso-di-n-pro	50	50	100.00	1-230
21 1,2,4-Trichloroben	50	32	64.00	44-142
25 4-Chloro-3-methylp	50	48	96.00	22-147
34 Acenaphthene	50	47	94.00	47-145
36 4-Nitrophenol	50	21	42.00	1-132
37 2,4-Dinitrotoluene	50	55	110.00	39-139
47 Pentachlorophenol	50	48	96.00	14-176
53 Pyrene	50	43	86.00	52-115
50 Anthracene	50	45	90.00	27-133
57 Benzo [a] anthracene	50	47	94.00	33-143
62 Benzo [b] fluoranthe	50	59	118.00	24-159
63 Benzo [k] fluoranthe	50	32	64.00	11-162
64 Benzo [a] pyrene	50	44	88.00	17-163
68 Benzo [g,h,i]peryle	50	45	90.00	1-219
55 Butylbenzylphthalate	50	49	98.00	1-152
5 bis(2-Chloroethyl)	50	42	84.00	12-158
19 bis(2-Chloroethoxy)	50	45	90.00	33-184
11 bis(2-chloroisopro	50	36	72.00	36-166
60 bis(2-Ethylhexyl)p	50	53	106.00	8-158
45 4-Bromophenyl-phen	50	48	96.00	53-127
29 2-Chloronaphthalen	50	40	80.00	60-118
39 4-Chlorophenyl-phe	50	45	90.00	25-158
59 Chrysene	50	48	96.00	17-168
67 Dibenz [a,h]anthrac	50	42	84.00	1-227
51 Di-n-butylphthalat	50	49	98.00	1-118
10 1,2-Dichlorobenzene	50	31	62.00	32-129
7 1,3-Dichlorobenzene	50	28	56.00	1-172
38 Diethylphthalate	50	51	102.00	1-114
30 Dimethylphthalate	50	49	98.00	1-112
32 Acenaphthylene	50	42	84.00	33-145

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
31 2,6-Dinitrotoluene	50	50	100.00	50-158
61 Di-n-octylphthalat	50	53	106.00	4-146
52 Fluoranthene	50	45	90.00	26-137
40 Fluorene	50	48	96.00	59-121
46 Hexachlorobenzene	50	40	80.00	1-152
24 Hexachlorobutadien	50	34	68.00	24-116
13 Hexachloroethane	50	29	58.00	40-113
66 Indeno [1,2,3-cd]py	50	46	92.00	1-171
16 Isophorone	50	42	84.00	21-196
23 Naphthalene	50	36	72.00	21-133
15 Nitrobenzene	50	39	78.00	35-180
49 Phenanthrene	50	46	92.00	54-120
20 2,4-Dichlorophenol	50	47	94.00	39-135
18 2,4-Dimethylphenol	50	45	90.00	32-119
35 2,4-Dinitrophenol	50	47	94.00	1-191
41 4,6-Dinitro-2-meth	50	54	108.00	1-181
17 2-Nitrophenol	50	47	94.00	29-182
27 2,4,6-Trichlorophe	50	46	92.00	37-144
56 3,3'-Dichlorobenzi	50	37	74.00	1-261
26 Hexachlorocyclopent	50	29	58.00	1-150
42 n-Nitrosodiphenyla	50	49	98.00	1-150
138 Benzidine	50	0.8	1.60	1-150

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 28 2-Fluorobiphenyl	50	41	82.00	43-116
\$ 1 2-Fluorophenol	75	35	46.67	21-110
\$ 14 Nitrobenzene-d5	50	42	84.00	35-114
\$ 3 Phenol-d5	75	26	34.67	10-110
\$ 54 Terphenyl-d14	50	39	78.00	33-141
\$ 44 2,4,6-Tribromophen	75	71	94.67	10-123



SPL Blank QC Report

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

page

1

Matrix: Aqueous
Sample ID: BLANK
Batch: E990512042310

Reported on: 05/17/99 14:34
Analyzed on: 05/14/99 00:47
Analyst: SC

METHOD 625 H132B06

Compound	Result	Detection Limit	Units
Phenol	ND	5	ug/L
bis(2-Chloroethyl)ether	ND	5	ug/L
2-Chlorophenol	ND	5	ug/L
1,3-Dichlorobenzene	ND	5	ug/L
1,4-Dichlorobenzene	ND	5	ug/L
1,2-Dichlorobenzene	ND	5	ug/L
bis(2-chloroisopropyl)ethane	ND	5	ug/L
N-Nitroso-di-n-propylamine	ND	5	ug/L
Hexachloroethane	ND	5	ug/L
Nitrobenzene	ND	5	ug/L
Isophorone	ND	5	ug/L
2-Nitrophenol	ND	5	ug/L
2,4-Dimethylphenol	ND	5	ug/L
bis(2-Chloroethoxy)methane	ND	5	ug/L
2,4-Dichlorophenol	ND	5	ug/L
1,2,4-Trichlorobenzene	ND	5	ug/L
Naphthalene	ND	5	ug/L
Hexachlorobutadiene	ND	5	ug/L
4-Chloro-3-methylphenol	ND	5	ug/L
Hexachlorocyclopentadiene	ND	5	ug/L
2,4,6-Trichlorophenol	ND	5	ug/L
2-Chloronaphthalene	ND	5	ug/L
Dimethylphthalate	ND	5	ug/L
2,6-Dinitrotoluene	ND	5	ug/L
Acenaphthylene	ND	5	ug/L
Acenaphthene	ND	5	ug/L
2,4-Dinitrophenol	ND	25	ug/L
4-Nitrophenol	ND	25	ug/L
2,4-Dinitrotoluene	ND	5	ug/L
Diethylphthalate	ND	5	ug/L
4-Chlorophenyl-phenylether	ND	5	ug/L
Fluorene	ND	5	ug/L
4,6-Dinitro-2-methylphenol	ND	25	ug/L
n-Nitrosodiphenylamine	ND	5	ug/L

Notes

ND - Not detected.



SPL Blank QC Report

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

page

2

Matrix: Aqueous
Sample ID: BLANK
Batch: E990512042310

Reported on: 05/17/99 14:34
Analyzed on: 05/14/99 00:47
Analyst: SC

METHOD 625 H132B06

Compound	Result	Detection Limit	Units
1,2-Diphenylhydrazine	ND	5	ug/L
4-Bromophenyl-phenylether	ND	5	ug/L
Hexachlorobenzene	ND	5	ug/L
Pentachlorophenol	ND	25	ug/L
Phenanthrene	ND	5	ug/L
Anthracene	ND	5	ug/L
Di-n-butylphthalate	ND	5	ug/L
Fluoranthene	ND	5	ug/L
Pyrene	ND	5	ug/L
Butylbenzylphthalate	ND	5	ug/L
3,3'-Dichlorobenzidine	ND	5	ug/L
Benzo[a]anthracene	ND	5	ug/L
Chrysene	ND	5	ug/L
bis(2-Ethylhexyl)phthalate	ND	5	ug/L
Di-n-octylphthalate	ND	5	ug/L
Benzo[b]fluoranthene	ND	5	ug/L
Benzo[k]fluoranthene	ND	5	ug/L
Benzo[a]pyrene	ND	5	ug/L
Indeno[1,2,3-cd]pyrene	ND	5	ug/L
Dibenz[a,h]anthracene	ND	5	ug/L
Benzo[g,h,i]perylene	ND	5	ug/L
Benzidine	ND	20	ug/L

Surrogate	Result	QC Criteria	Units
2-Fluorobiphenyl	72	43-116	% Recovery
2-Fluorophenol	43	21-110	% Recovery
Nitrobenzene-d5	76	35-114	% Recovery
Phenol-d5	32	10-110	% Recovery
Terphenyl-d14	78	33-141	% Recovery
2,4,6-Tribromophenol	85	10-123	% Recovery

Notes

ND - Not detected.



SPL Blank QC Report

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

page

3

Matrix: Aqueous
Sample ID: BLANK
Batch: E990512042310

Reported on: 05/17/99 14:34
Analyzed on: 05/14/99 00:47
Analyst: SC

METHOD 625 H132B06

Samples in Batch 9905439-01 9905439-02 9905439-03

Notes

ND - Not detected.



** SPL BATCH QUALITY CONTROL REPORT **

METHOD 502.2

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

Matrix: Aqueous

Units: $\mu\text{g/L}$

Batch Id: HP_F990517103000

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory)		
			Result <1>	Recovery %	% Recovery Range		
Dichlorodifluoromethane	ND	20	24	120		80	- 120
Chloromethane	ND	20	19	95.0		80	- 120
Vinyl chloride	ND	20	20	100		80	- 120
Bromomethane	ND	20	20	100		80	- 120
Chloroethane	ND	20	18	90.0		80	- 120
Trichlorofluoromethane	ND	20	21	105		80	- 120
1,1-Dichloroethene	ND	20	20	100		80	- 120
Methylene Chloride	ND	20	20	100		80	- 120
trans-1,2-Dichloroethene	ND	20	20	100		80	- 120
1,1-Dichloroethane	ND	20	20	100		80	- 120
2,2-Dichloropropane	ND	20	22	110		80	- 120
cis-1,2-Dichloroethene	ND	20	21	105		80	- 120
Chloroform	ND	20	20	100		80	- 120
Bromochloromethane	ND	20	19	95.0		80	- 120
1,1,1-Trichloroethane	ND	20	20	100		80	- 120
1,1-Dichloropropene	ND	20	21	105		80	- 120
Carbon Tetrachloride	ND	20	20	100		80	- 120
Benzene	ND	20	21	105		80	- 120
1,2-Dichloroethane	ND	20	19	95.0		80	- 120
Trichloroethene	ND	20	19	95.0		80	- 120
1,2-Dichloropropane	ND	20	20	100		80	- 120
Bromodichloromethane	ND	20	19	95.0		80	- 120
Dibromomethane	ND	20	19	95.0		80	- 120
cis-1,3-Dichloropropene	ND	20	20	100		80	- 120
Toluene	ND	20	21	105		80	- 120
trans-1,3-Dichloropropene	ND	20	21	105		80	- 120
1,1,2-Trichloroethane	ND	20	20	100		80	- 120
Tetrachloroethene	ND	20	20	100		80	- 120
1,3-Dichloropropane	ND	20	20	100		80	- 120
Dibromochloromethane	ND	20	20	100		80	- 120
1,2-Dibromoethane	ND	20	19	95.0		80	- 120
Chlorobenzene	ND	20	21	105		80	- 120
Ethyl benzene	ND	20	21	105		80	- 120
1,1,1,2-Tetrachloroethane	ND	20	21	105		80	- 120
Xylenes	ND	60	63	105		80	- 120
Styrene	ND	20	21	105		80	- 120
Isopropylbenzene	ND	20	21	105		80	- 120
Bromoform	ND	20	21	105		80	- 120
1,1,2,2-Tetrachloroethane	ND	20	20	100		80	- 120
1,2,3-Trichloropropane	ND	20	18	90.0		80	- 120
n-Propyl benzene	ND	20	20	100		80	- 120
Bromobenzene	ND	20	22	110		80	- 120



** SPL BATCH QUALITY CONTROL REPORT **

METHOD 502.2

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

Matrix: Aqueous

Units: $\mu\text{g/L}$

Batch Id: HP_F990517103000

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory)	% Recovery Range
			Result <1>	Recovery %		
1,3,5-Trimethylbenzene	ND	20	20	100	80 -	120
2-Chlorotoluene	ND	20	22	110	80 -	120
4-Chlorotoluene	ND	20	21	105	80 -	120
tert-Butylbenzene	ND	20	20	100	80 -	120
1,2,4-Trimethylbenzene	ND	20	19	95.0	80 -	120
sec-Butylbenzene	ND	20	18	90.0	80 -	120
p-Isopropyltoluene	ND	20	20	100	80 -	120
1,3-Dichlorobenzene	ND	20	22	110	80 -	120
1,4-Dichlorobenzene	ND	20	20	100	80 -	120
n-Butylbenzene	ND	20	19	95.0	80 -	120
1,2-Dichlorobenzene	ND	20	21	105	80 -	120
1,2-Dibromo-3-chloropropan	ND	20	24	120	80 -	120
1,2,4-Trichlorobenzene	ND	20	21	105	80 -	120
Hexachlorobutadiene	ND	20	23	115	80 -	120
Naphthalene	ND	20	22	110	80 -	120
1,2,3-Trichlorobenzene	ND	20	23	115	80 -	120

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike		MS/MSD Difference	QC Limits(***) (Advisory)		
			Result <1>	Recovery <4>	Duplicate			Relative %	RPD Max.	
					Result <1>	Recovery <5>				
DICHLORODIFLUOROMETHANE	ND	20	22	110	23	115	4.44	20	80 - 120	
CHLOROMETHANE	ND	20	22	110	23	115	4.44	20	80 - 120	
VINYL CHLORIDE	ND	20	23	115	23	115	0	20	80 - 120	
BROMOMETHANE	ND	20	23	115	23	115	0	20	80 - 120	
CHLOROETHANE	ND	20	23	115	22	110	4.44	20	80 - 120	
TRICHLOROFUOROMETHANE	ND	20	25	125	24	120	4.08	20	80 - 120	
1,1-DICHLOROETHENE	ND	20	24	120	24	120	0	20	80 - 120	
METHYLENE CHLORIDE	ND	20	23	115	23	115	0	20	80 - 120	
TRANS-1,2-DICHLOROETHENE	ND	20	25	125	24	120	4.08	20	80 - 120	
1,1-DICHLOROETHANE	ND	20	25	125	24	120	4.08	20	80 - 120	
2,2-DICHLOROPROpane	ND	20	27	135	26	130	3.77	20	80 - 120	
CIS-1,2-DICHLOROETHENE	ND	20	24	120	23	115	4.26	20	80 - 120	
CHLOROFORM	ND	20	23	115	23	115	0	20	80 - 120	
BROMOCHLOROMETHANE	ND	20	23	115	22	110	4.44	20	80 - 120	
1,1,1-TRICHLOROETHANE	ND	20	24	120	23	115	4.26	20	80 - 120	
1,1-DICHLOROPROPENE	ND	20	24	120	23	115	4.26	20	80 - 120	
CARBON TETRACHLORIDE	ND	20	24	120	24	120	0	20	80 - 120	
BENZENE	ND	20	23	115	23	115	0	20	80 - 120	



** SPL BATCH QUALITY CONTROL REPORT **

METHOD 502.2

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

Matrix: Aqueous

Units: $\mu\text{g/L}$

Batch Id: HP_F990517103000

M A T R I X S P I K E S

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike		MS/MSD Relative %	QC Limits (***) (Advisory)		
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		Difference	RPD Max.	
1,2-DICHLOROETHANE	ND	20	22	110	22	110	0	20	80 - 120	
TRICHLOROETHENE	ND	20	23	115	23	115	0	20	80 - 120	
1,2-DICHLOROPROPANE	ND	20	23	115	22	110	4.44	20	80 - 120	
BROMODICHLOROMETHANE	ND	20	24	120	23	115	4.26	20	80 - 120	
DIBROMOMETHANE	ND	20	22	110	21	105	4.65	20	80 - 120	
CIS-1,3-DICHLOROPROPENE	ND	20	24	120	23	115	4.26	20	80 - 120	
TOLUENE	ND	20	23	115	23	115	0	20	80 - 120	
TRANS-1,3-DICHLOROPROPENE	ND	20	23	115	23	115	0	20	80 - 120	
1,1,2-TRICHLOROETHANE	ND	20	23	115	22	110	4.44	20	80 - 120	
TETRACHLOROETHENE	ND	20	24	120	24	120	0	20	80 - 120	
1,3-DICHLOROPROPANE	ND	20	22	110	22	110	0	20	80 - 120	
DIBROMOCHLOROMETHANE	ND	20	22	110	22	110	0	20	80 - 120	
1,2-DIBROMOETHANE	ND	20	22	110	22	110	0	20	80 - 120	
CHLOROBENZENE	ND	20	24	120	23	115	4.26	20	80 - 120	
ETHYL BENZENE	ND	20	23	115	23	115	0	20	80 - 120	
1,1,1,2-TETRACHLOROETHANE	ND	20	23	115	22	110	4.44	20	80 - 120	
XYLENES	ND	60	69	115	68	113	1.75	20	80 - 120	
STYRENE	ND	20	22	110	22	110	0	20	80 - 120	
ISOPROPYLBENZENE	ND	20	23	115	23	115	0	20	80 - 120	
BROMOFORM	ND	20	23	115	21	105	9.09	20	80 - 120	
1,1,2,2-TETRACHLOROETHANE	ND	20	22	110	21	105	4.65	20	80 - 120	
1,2,3-TRICHLOROPROPANE	ND	20	22	110	20	100	9.52	20	80 - 120	
N-PROPYL BENZENE	ND	20	23	115	23	115	0	20	80 - 120	
BROMOBENZENE	ND	20	22	110	22	110	0	20	80 - 120	
1,3,5-TRIMETHYLBENZENE	ND	20	22	110	21	105	4.65	20	80 - 120	
2-CHLOROTOLUENE	ND	20	23	115	23	115	0	20	80 - 120	
4-CHLOROTOLUENE	ND	20	22	110	22	110	0	20	80 - 120	
TERT-BUTYLBENZENE	ND	20	22	110	22	110	0	20	80 - 120	
1,2,4-TRIMETHYLBENZENE	ND	20	21	105	21	105	0	20	80 - 120	
SEC-BUTYLBENZENE	ND	20	20	100	21	105	4.88	20	80 - 120	
P-ISOPROPYLtoluene	ND	20	21	105	21	105	0	20	80 - 120	
1,3-DICHLOROBENZENE	ND	20	22	110	22	110	0	20	80 - 120	
1,4-DICHLOROBENZENE	ND	20	23	115	22	110	4.44	20	80 - 120	
N-BUTYLBENZENE	ND	20	20	100	20	100	0	20	80 - 120	
1,2-DICHLOROBENZENE	ND	20	22	110	21	105	4.65	20	80 - 120	
1,2-DIBromo-3-CHLOROPROPAN	ND	20	22	110	20	100	9.52	20	80 - 120	
1,2,4-TRICHLOROBENZENE	ND	20	20	100	20	100	0	20	80 - 120	
HEXACHLOROBUTADIENE	ND	20	22	110	22	110	0	20	80 - 120	
NAPHTHALENE	ND	20	23	115	22	110	4.44	20	80 - 120	
1,2,3-TRICHLOROBENZENE	ND	20	22	110	22	110	0	20	80 - 120	



** SPL BATCH QUALITY CONTROL REPORT **

METHOD 502.2

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

Matrix: Aqueous

Units: µg/L

Batch Id: HP_F990517103000

Analyst: YN

Sequence Date: 05/18/99

SPL ID of sample spiked: 9905439-01B

Sample File ID: FFE3011.TX0

Method Blank File ID:

Blank Spike File ID: FFE3035.TX0

Matrix Spike File ID: FFE3015.TX0

Matrix Spike Duplicate File ID: FFE3016.TX0

* = Values outside QC Range due to Matrix Interference (except RPD)

< = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = | (<4> - <5>) / [(<4> + <5>) x 0.5] x 100

(**) = Source: Method limits and Historicals for 1st Qtr.'97

(***) = Source: SPL Historical Limits-1st Qtr.'97 for surrogates

SAMPLES IN BATCH(SPL ID): 9905439-04B 9905439-01B 9905439-02B 9905439-03B

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST

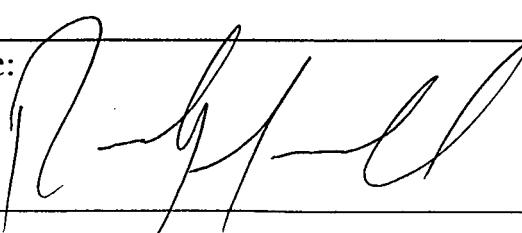
SPL Houston Environmental Laboratory

Sample Login Checklist

Date:	Time:
5-12-99	10 ⁰⁰

SPL Sample ID:
9905439

		Yes	No
1	Chain-of-Custody (COC) form is present.	/	
2	COC is properly completed.	/	
3	If no, Non-Conformance Worksheet has been completed.		
4	Custody seals are present on the shipping container.	/	
5	If yes, custody seals are intact.	/	
6	All samples are tagged or labeled.	/	
7	If no, Non-Conformance Worksheet has been completed.		
8	Sample containers arrived intact	/	
9	Temperature of samples upon arrival:	12	C
10	Method of sample delivery to SPL:	SPL Delivery Client Delivery FedEx Delivery (airbill #) Other:	811305333214
11	Method of sample disposal:	SPL Disposal HOLD Return to Client	/

Name: 	Date: 5-12-99
--	------------------